

**I CLAIM AS MY INVENTION:**

1. A ventilator comprising:  
an inspiratory unit;  
an expiratory valve;  
a control unit for controlling said inspiratory unit and said expiratory valve to regulate  
a flow of breathing gas by generating a recruitment phase with an elevated basic  
pressure for said breathing gas, with a plurality of breaths superimposed at an  
increased breathing rate.

2. A ventilator as claimed in claim 1 wherein said control unit controls said  
inspiratory unit and said expiratory valve to produce said elevated basic pressure in a range from  
10 to <sup>30</sup>~~60~~ cmH<sub>2</sub>O.

3. A ventilator as claimed in claim 1 wherein said control unit controls said  
inspiratory unit and said expiratory valve to generate said superimposed breaths at a pressure in  
a range from 1 to 10 cmH<sub>2</sub>O.

4. A ventilator as claimed in claim 1 wherein said control unit controls said  
inspiratory unit and said expiratory valve to generate said increased breathing rate in a range from  
50 to 200 breaths/minute.

5. A ventilator as claimed in claim 1 wherein said control unit controls said  
inspiratory unit and said expiratory valve to set said increased breathing rate as a percentage of  
a predetermined normal breathing rate.

6. A ventilator as claimed in claim <sup>5</sup>~~3~~ wherein said control unit sets said percentage  
to a percentage in a range between 110% and 1000%.

7. A ventilator as claimed in claim 1 wherein said control unit controls said  
inspiratory unit and said expiratory valve to generate said recruitment phase for a duration in a  
range between 10 to 100 seconds.